UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,696	05/05/2006	Stephen D. Horton	1200326N US	4938
35227 POLYONE CO	7590 05/29/200 RPORATION	EXAMINER		
33587 WALKE	ER ROAD	THOMAS, JAISON P		
AVON LAKE,	OH 44012		ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			05/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	Application No. Applicat		ant(s)			
		10/595	,696	HORTON, STEPHEN D.				
Office Action Summary			ner	Art Unit				
		Jaison	P. Thomas	1796				
Period fo	The MAILING DATE of this commun or Reply	ication appears on	the cover sheet wit	h the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) file	ed on <i>05 May 2006</i>						
2a)□	Responsive to communication(s) filed on <u>05 May 2006</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)		<i>'</i> —		ers, prosecution as to the	e merits is			
٠,٠	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 1-10 is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
· · _ ·	6) Claim(s) <u>1-10</u> is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restrict	ction and/or election	n requirement.					
Applicati	on Papers							
9)□	The specification is objected to by th	e Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
/—	Applicant may not request that any obje	·—	·— •	•				
	Replacement drawing sheet(s) including		· -		FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ເ	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>10/19/2006</u> .	PTO-948)	Paper No(s)	ummary (PTO-413) )/Mail Date formal Patent Application _·				

Application/Control Number: 10/595,696 Page 2

Art Unit: 1796

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4,5 and 7-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4,5 and 7-10 are multiple dependent claims. For purposes of examination, each claim will be considered to be dependent on Claim 1.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-6 and 8-10 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nakamura et al. (US Patent 5403873).

Nakamura et al. (US Patent 5403873) teaches a composition comprising a conductive plastisol for use in a molded article wherein a non conductive polymer particle is coated with a conductive polymer (Abstract). The non conductive polymers can include polymethylmethacrylate and polyvinyl chloride (Col. 2, lines 6-7) and the conductive polymer can include polyaniline (Col. 2, line 50) and graphite (Col. 3, line 8).

Nakamura is relied upon as disclosed above. However, Nakamura does not teach the use of a lignosulfonic acid doped polyaniline polymer in the composition as required by Claim 6.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed doped polyaniline since such polyanilines are notoriously well known in the art and Applicant has not established the criticality of the selection of this particular type of conductive polymer.

6. Claims 1,2,5-7 and 10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kulkarni et al. (US Patent 5217649).

Kulkarni et al. (US Patent 5217649) is a blend composition comprised of an intrinsically conductive polymer blended with a thermoplastic polymer and a plasticizer (Abstract). The composition can be used for shielding and electrostatic dissipation

applications (Col. 4, line 26) which Examiner construes as being a coating embodiment. The thermoplastic polymer can include polyvinyl chloride (Col. 4, line 33) and the conductive polymer can include doped polyaniline which can be doped with organic sulfonic acids (Col 4, line 31).

Kulkarni is relied upon as disclosed above. However, Kulkarni does not teach a lignosulfonic acid doped polyanilinne as required by Claim 6.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed doped polyaniline since such polyanilines are notoriously well known in the art and Applicant has not established the criticality of the selection of this particular type of conductive polymer.

#### Conclusion

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaison P. Thomas whose telephone number is (571) 272-8917. The examiner can normally be reached on Mon-Fri 9:30 am to 6:00 pm.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/595,696 Page 5

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. P. T./ Examiner, Art Unit 1796 /Mark Kopec/ Primary Examiner, Art Unit 1796